

General

Project Description

This project consists of resurfacing multiple roadways and a parking lot located throughout Punderson State Park in Newbury Township. A full depth pavement repair is also included at the culvert located along Interurban Dr.

Existing Typical Sections

Existing typical sections have been taken from the records and are believed to represent the existing pavement, but the State of Ohio does not guarantee the accuracy of the same.

For further information in regard to the existing typical sections, the contractor shall refer to the previous construction plans.

These plans may be reviewed at the

Ohio Department Transportation  
District 12 Office  
5500 Transportation Boulevard  
Garfield Heights, Ohio 44125

Contingency Quantities

The contractor shall not order materials or perform work for items designated by plan note to be used “as directed by the engineer” unless authorized by the engineer. The actual work locations and quantities used for such items shall be incorporated into the final change order governing completion of this project.

Equipment and Material Storage

In order to provide for the safety of the traveling public the Contractor's attention is directed to 614.03. In addition, the following provisions shall apply:

- 1. Any removed items shall not be stored on the right of way for more than thirty (30) days.
- 2. The storage of equipment, materials, and vehicles within the highway right of way will be permitted. The number of areas and exact locations shall be approved by the Engineer.
- 3. All disturbed areas shall be returned to their original condition at no expense to the state.

Cooperation Between Contractors

The contractor shall cooperate and coordinate operations with the contractors on other projects that may be in force during the life of the contract.

Work Limits

The work limits shown on these plans are for physical construction only. The installation and operation of all temporary traffic control and temporary traffic control devices required by these plans shall be provided by the contractor whether inside or outside these work limits.

Right Of Way

All work shall be performed within the existing right of way or easements.

Plan Sheet Stationing

The roadway was not surveyed prior to the preparation of these plans. Stationing was provided to prepare plan sheets and calculate pavement and pavement marking quantities.

Construction Noise

Activities and land use adjacent to this project may be affected by construction noise. In order to minimize any adverse construction noise impacts, do not operate power-operated construction-type devices between the hours of 9:00pm and 7:00am. In addition, do not operate at any time any device in such a manner that the noise created substantially exceeds the noise customarily and necessarily attendant to the reasonable and efficient performance of such equipment.

Staging Areas

There are no specific areas given in the plans for the Contractor to use as a staging area(s). If the Contractor wants to use an area(s) for staging, regardless if it falls within the project limits or not, the Contractor is to use the Right of Way E-Permitting System at <https://odhcp.bemcorp.net/Accounts/Account/Account> in order to apply for a permit per Section 107.02 of the CMS. For specific permitting questions, the Contractor can contact the District Permitting Office, (Melvin Safford) at 216-584-2137, (Andrew Tomko) at 216-584-2195 or at [District12Permits@dot.ohio.gov](mailto:District12Permits@dot.ohio.gov).

If a permit is granted, all conditions of the permit shall be met in addition to the requirements of 104.04 of the CMS, at no additional cost to the State. If the Project Engineer deems that all the conditions of the permit were not met, then 10% of the Contract bid amount for mobilization shall be withheld until all the conditions of the permit are satisfied.

Protection of Right-of-Way Landscaping

Prior to beginning work, the Contractor, the Project Engineer and a representative of the maintaining agency will review and record all landscaping items within the right-of-way (both within and outside the construction limits). A record of this review will be kept in the Project Engineer's files. Prior to final acceptance, a final review of landscaping items will be made.

Constrict all activities, equipment storage and staging to within the construction limits. Unless otherwise identified in the plans or proposal, the construction limits are identified as 30 feet from the edge of pavement.

Submit a written request to the Project Engineer to use any area outside these limits. The document submitted must clearly identify the area and explain the proposed use and restoration of the area. Use of these areas for disposal of waste material and construction debris, excavation of borrow material and placement of portable plants is prohibited. The request must be approved, in writing, before the Contractor has permission to use the area.

Any items damaged beyond the construction limits, as defined above, will be replaced in kind or as approved by the Project Engineer.

Utilities

The following utilities and owners are located within the work limits of this project. The Ohio Department of Transportation has used the best available information to determine the utility companies serving this area but cannot guarantee the utility company list is complete.

AT&T  
13630 Lorain Ave. – 2nd Floor  
Cleveland, Ohio 44111  
Attn: James Janis  
Phone: (216) 534-7285  
Fax: (216) 476-6013  
[pj8191@att.com](mailto:pj8191@att.com)

Ohio Department of Transportation  
District 12 – Roadway Services  
5500 Transportation Blvd.  
Garfield Heights, Ohio 44125  
Attn: William Gerber  
Phone: 216-584-2260  
Or  
Attn: John Bacon  
Phone: 216-584-2220

DESIGN AGENCY



DESIGNER

KHD

REVIEWER

DAB 09-17-24

PROJECT ID

111346

SHEET

P.5

TOTAL

21



Roadway and Erosion Control

Item 209 – Linear Grading, As Per Plan

This item of work shall consist of grading along the outside edge of the paved shoulder to eliminate high spots and provide positive sheet flow off the pavement and shoulder into roadside ditches or drainage structures. This item is not intended to be used to excavate a uniform depth to place Item 617 – Compacted Aggregate, As Per Plan.

Any debris collected shall be removed and disposed of as specified in Section 105.16 & 105.17 of the Construction and Material Specifications.

Payment for the above work shall be made at the unit bid price for Item 209, Station, Linear Grading, As Per Plan and shall include all labor, tools, equipment and materials necessary to perform this item of work.

Drainage

Castings Adjusted to Grade, As Per Plan

All castings, within the asphalt overlay section, shall be adjusted to the finished roadway elevation by the Contractor. The time between adjusting the castings and resurfacing shall be kept to an absolute minimum. No adjusting rings shall be permitted.

The following estimated quantities have been carried to the General Summary:

Item 611 – Catch Basin Adjusted to Grade, As Per Plan..... **4 Each**  
Item 611 – Manhole Adjusted to Grade, As Per Plan..... **6 Each**  
Item 638 – Valve Box Adjusted to Grade, As Per Plan..... **3 Each**

Pavement

Profile and Alignment

Place the proposed pavement to follow the alignment of the existing pavement. Place the proposed asphalt concrete with a uniform thickness as shown on the typical sections.

Planing Requirements

The duration of time between planing the asphalt and placing the surface asphalt overlay shall be kept to a minimum. In no instance shall this time exceed 14 calendar days. The time limit shall begin on the first day of planing and shall continue based on calendar days, minus any weather days, until completion of the asphalt concrete surface course. This is to ensure that the potential degradation of the exposed pavement due to traffic is kept to a minimum.

In the event that the time between exposing the existing pavement and placing the intermediate asphalt course exceeds 14 calendar days, liquidated damages as per 108.07 of the C&MS shall be assessed.

Asphalt Concrete Surface Course Sealing Requirements

In addition to the gutter sealing requirements specified in SCD BP-3.1 and C&MS 401.15, after completion of the surface course, the contractor shall use a certified 702.01 PG binder to seal the following locations:

- All castings including but not limited to monuments, manholes, water valves, catch basins, curb inlets.
- Butt joints and feather joints including bridge approaches.
- Forward joint for driveway asphalt and trailing joint when butting to existing asphalt drive.
- Perimeter of all pavement repairs or other asphalt inlays when pavement repairs/inlays are not overlaid with an asphalt concrete surface course.
- All cold longitudinal joints between paved shoulders and guardrail asphalt.

The material used shall be a certified 702.01 PG binder. The width of the sealer shall be 2-3 inches.

Any additional costs associated with the work identified in this note shall be included in the appropriate asphalt concrete surface course item of work.

Item 251 – Partial Depth Pavement Repair (441)

This item shall be used to repair unsound, cold patch, or pop-out areas of longitudinal and transverse joints as directed by the Engineer. This work shall be performed prior to the planing operation. The depth of the repair shall be 3” below the top of the planed surface. The width of the repair shall be 24” centered over the existing joint.

Use replacement materials conforming to the requirements of Item 441, Type 2.

The following estimated quantity has been carried to the General Summary:

Item 251 – Partial Depth Pavement Repair.....**150 SY**

Item 251 – Partial Depth Pavement Repair (441), As Per Plan

This item shall be used to repair pavement areas affected by culvert replacements along W Cleveland Dr., Pennywort Dr., Old Interurban Dr., Camping Area Rd. 1, Camping Area Rd. 4, Camping Area Rd. 5, and the Equipment Storage Road. Three of these culvert pavement repair areas are located outside of the work limits along the Equipment Storage Rd. and S Pennywort Dr. (see callouts in the Schematic Plans). The depth of these repairs shall be 4” below the top of the pavement surface. The contractor shall remove 4” in depth of existing gravel and compact this material prior to paving. The width of these repairs shall be 36”.

Use replacement materials conforming to the requirements of Item 441, Type 2. This work includes the removal of aggregate displaced from repair areas.

The following estimated quantity has been carried to the General Summary:

Item 251 – Partial Depth Pavement Repair, As Per Plan.....**130 SY**

Item 253 – Pavement Repair

This work item is for use as directed by the Engineer for the purpose of pavement repair. All labor and material necessary to perform this work and section 250 of the CMS shall be included for payment under Item 253.

Depth of pavement repair removal shall typically be 10” measured after the pavement has been planed. The depth of repair shall be as directed by the Engineer if unsound material is encountered after the removal of the 10”.

Use replacement materials conforming to the requirements of Item 301.

The following estimated quantity has been carried to the General Summary:

Item 253 – Pavement Repair..... **15 CY**

Item 304 – Aggregate Base, As Per Plan

This item shall be used as directed by the Engineer in pavement repair areas where the Engineer deems the subgrade material unsuitable.

Place 6” of material conforming to the requirements of Item 304.

The following estimated quantity has been carried to the General Summary for use as directed by the Engineer:

Item 304 – Aggregate Base..... **25 CY**

Item 617 – Compacted Aggregate, As Per Plan

This item shall be used along the shoulders. Material shall be limited to reclaimed asphalt concrete pavement.

The actual depth of compacted aggregate placed will vary depending upon existing conditions. For estimating purposes, an average depth of one inch (1”) has been used. Water, if needed, shall be applied according to 617.05 and shall be included with Item 617 – Compacted Aggregate, As Per Plan.

This item shall be used, as directed by the Engineer to fill any remaining low areas after Item 209 – Linear Grading, As Per Pan is completed.

Item 897 – Pavement Planing, Asphalt Concrete, Class A

Pavement planing shall be performed at an average depth of 1” as specified in the plans. All equipment, materials and labor required to perform the pavement repairs as detailed in these plans shall be included for payment under Item 897 – Pavement Planing, Asphalt Concrete, Class A.

The contractor shall coordinate with the Parks District to deposit the initial asphalt millings at the Disc Golf Parking Expansion Area at the direction of the Engineer. After an amount satisfying the on-site Engineer (approximately 1111 CY) has been deposited at this site, the contractor shall stockpile the remaining asphalt millings (approximately 716 CY) at the Archery Range Parking Area. Contact Project Engineer David Selzer (216-379-2222, [David.Selzer@dot.ohio.gov](mailto:David.Selzer@dot.ohio.gov)) and Park Manager Josie McKenna (1-330-637-2856 , [josie.mckenna@dnr.ohio.gov](mailto:josie.mckenna@dnr.ohio.gov)) to coordinate this process.



SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7		9	10		12	13					01/NFA/05						
							482						482	209	60201	482	STA	ROADWAY LINEAR GRADING, AS PER PLAN	6
													1,000	832	30000	1,000	EACH	EROSION CONTROL EROSION CONTROL	
																		DRAINAGE	
	6												6	611	99655	6	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	6
	4												4	611	98631	4	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	6
	3												3	638	10801	3	EACH	VALVE BOX ADJUSTED TO GRADE, AS PER PLAN	6
																		PAVEMENT	
	150												150	251	01000	150	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
	130												130	251	01001	130	SY	PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN	6
	15												15	253	02000	15	CY	PAVEMENT REPAIR	
	25												25	304	20001	25	CY	AGGREGATE BASE, AS PER PLAN	6
							5,918						5,918	407	20000	5,918	GAL	NON-TRACKING TACK COAT	
							1,827						1,827	424	14000	1,827	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), 1.0"	
							589						589	617	10101	589	CY	COMPACTED AGGREGATE, AS PER PLAN	6
							4,169						4,169	875	10000	4,169	LB	LONGITUDINAL JOINT ADHESIVE	
							65,745						65,745	897	01010	65,745	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A, 1.0"	
																		TRAFFIC CONTROL	
								9.21					9.21	646	10010	9.21	MILE	EDGE LINE, 6"	
								2.2					2.2	646	10200	2.2	MILE	CENTER LINE	
								962					962	646	10310	962	FT	CHANNELIZING LINE, 12"	
								283					283	646	10400	283	FT	STOP LINE	
								307					307	646	10520	307	FT	CROSSWALK LINE, 24"	
								1,132					1,132	646	10600	1,132	FT	TRANSVERSE/DIAGONAL LINE	
								5					5	646	10900	5	EACH	HANDICAP SYMBOL MARKING	
								4,076					4,076	646	20200	4,076	FT	PARKING LOT STALL MARKING	
								14					14	646	20300	14	EACH	LANE ARROW	
		LS											LS	SPECIAL	69098400	LS		INVENTORY EXISTING PAVEMENT MARKINGS	7
																		MAINTENANCE OF TRAFFIC	
					80								80	614	11110	80	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
				8									8	614	12460	8	EACH	WORK ZONE MARKING SIGN	
				25									25	614	13000	25	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
					6								6	614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	10
				2.2									2.2	614	21100	2.2	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
				2.2									2.2	614	21550	2.2	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
				9.21									9.21	614	22110	9.21	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
				9.21									9.21	614	22360	9.21	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
				962									962	614	23210	962	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
				962									962	614	23690	962	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
				1,132									1,132	614	25200	1,132	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
				1,132									1,132	614	25620	1,132	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS III, 642 PAINT	
				283									283	614	26200	283	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
				283									283	614	26610	283	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
				307									307	614	27060	307	FT	WORK ZONE CROSSWALK LINE, CLASS I, 24", 642 PAINT	
				307									307	614	27260	307	FT	WORK ZONE CROSSWALK LINE, CLASS III, 24", 642 PAINT	
				300									300	630	97800	300	SF	SIGNING, MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER	9
													LS	614	11000	LS		INCIDENTALS	
													LS	623	10000	LS		MAINTAINING TRAFFIC	
													LS	624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

KHD

REVIEWER

DAB 09-17-24

PROJECT ID

111346

SHEET

P.11

TOTAL

21